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RQET1600038: EJ Ward Fuel Management System Upgrade

INTRODUCTION/BACKGROUND

This statement of work has been put together to detail the upgrade of Miami-Dade County's (herein referred to as the "County") existing EJ Ward Fuel Management System.

The Internal Services Department's Fleet Management Division oversees the operations of twenty-nine (29) fueling stations throughout Miami-Dade County. Through this vast network of fueling stations, Fleet Management dispenses approximately twelve million gallons (12,000,000) of diesel and unleaded fuel annually. These fueling stations support the County's daily operation by providing fuel to County and to other government entities vehicles.

The County desires to upgrade the current EJ Ward software and related hardware at its 29 fueling facilities as described the below mentioned scope of work. As per the scope, the County will upgrade from its current IBM AIX enterprise-class open standards UNIX operating system to the latest W4 windows based platform. This upgrade will offer many benefits including, but not limited to, compatibility with other County agency Ward fueling systems (Dade Transit, Dade Fire, etc.), a full new interface with enterprise dashboards and reporting structure, new fuel island hardware as well as the ability to begin utilizing the latest W4 vehicle CANceiver devices. Additionally, the County will be able to continue the use of its existing OBDII W3 CANceiver and Radio Frequency Identification (RFID) transponders, which are currently installed in over 6,000 vehicles assets, on the aforementioned upgraded platform.

EJ Ward Inc. is the original equipment manufacturer (OEM) of the Ward Fuel View Automated Fuel Management System (AFMSTM) and the Ward Fleet View Asset Tracking System (ATSTM) and owns the intellectual property rights to its Automated Fuel Management System (AFMS), OBDII CANceiver, Telematics GPS /AVL system, Related Software Programs, Communication Systems and Documentation. Ward has not assigned or sublicensed its intellectual property rights to any person or company to develop, or reuse its technology, protected trade secrets, trademark or copyrights as part of; or in conjunction with similar or like products or services.

SCOPE OF WORK

Miami-Dade County is performing a full upgrade from their current EJ Ward software and hardware platforms to the latest W4 solution. This project includes the following:

- **Software:** The County presently operates a custom built version of the EJ Ward Fueling software. The system is running on an antiquated IBM AIX based server platform which is no longer supported by EJ Ward. The aforementioned legacy system communicates to several EJ Ward Fuel Control Terminals, which are located at each of the County's

fuel islands, and runs a custom Ward operating system that allows for a secure verification, disbursement, and accounting of fuel usage by end users. The communication topology today utilizes digital leased lines for data traffic. The County's software upgrade will be to the W4.5.X.X version of the EJ Ward Fuel View Software.

In order to perform the upgrade, the current AIX/UNIX based custom EJ Ward database will need to be extracted, compiled and imported into the new EJ Ward Fuel View Automated Fuel Management software environment consisting of Windows Server 2012 or newer and MS SQL 2014 or Newer with IIS: .Net 4.5 .Net 4.0. Custom and proprietary EJ Ward interface tools are required to connect the existing AIX/Unix and Windows versions of software to allow both the existing and new systems to work together as the upgrades to the fuel island hardware are being performed.

This upgrade can only be performed by EJ Ward approved certified technicians implementation department team members who are familiar with the custom tools and legacy products involved in a very complex software upgrade.

- **Hardware** – Miami Dade County will also be upgrading the currently installed Fuel Control Terminals (FCT) to the EJ Ward FCT-W4 version (W4) of Fuel Control Terminals.

The W4 terminals are comprised of the following:

7" Color Screen, full QWERTY Keypad, HID Reader, 2 GB RAM/8 GB Flash Drive, UPS, Stainless Steel Enclosure Construction, CANceiver Ready and with WiFi - 802.11 /B/G & temperature rated switch.

The W4 software and FCT-W4 terminal upgrade also allows Miami Dade County to continue the use of its existing OBDII W3 CANceiver and RFID transponders and allow for the use of the latest W4 CANceiver.

Note: The W4 CANceiver's do not require running a fuel ring antenna from the OBDII connected CANceiver to the fuel inlet as the previous generation installed W3 vehicle devices did. The new platform will utilize the W4 Ward EM-Tag as a replacement for the old ring antenna allowing for a more simple installation reducing time and effort by 2/3 the current installation time. The "Tags" can also be used to authenticate a fueling transaction for items like off road equipment and other assets that the County may want to track and control fuel for, i.e. undercover vehicles that are not maintained by the city, tractors, auxiliary fuel tanks etc.

PERIOD OF PERFORMANCE

The total timeframe of the project has not been fully defined by the county due to infrastructure changes underway at the fuel islands before EJ Ward approved certified technicians can begin upgrading the existing Hardware and Software. Current projections are; the software upgrade will take place 2nd Quarter 2017 with the fuel island terminal upgrades starting immediately after with full project completion by early 2018.

PLACE OF PERFORMANCE

Work will be performed at all the below listed County fueling locations and other designated buildings by EJ Ward certified technicians.

#	Fuel Site Name	Fuel Site Address	Date of Installtion
1	WASD Interama	2575 NE 151st Street	To Be Determined
2	STATION 6	15665 BISCAYNE BLVD	To Be Determined
3	STATION 9	18805 NW 27th Ave	To Be Determined
4	SHOP 3A	18701 NE 6th Ave	To Be Determined
5	North Dade Landfill	21300 NW 47th Ave	To Be Determined
6	STATION 1	5975 Miami Lakes Drive	To Be Determined
7	PROS Amelia Earhart Park	200 W 74th Place	To Be Determined
8	STATION 2 Arcola	799 NW 85th Street	To Be Determined
9	WASD Hialeah	800 W 3rd Ave	To Be Determined
10	MDPD (HEADQUARTERS)	9109 NW 25th Street	To Be Determined
11	SHOP 3 MAIN	8801 NW 58th Street	To Be Determined
12	PWWM - Traffic & Signs	7100 NW 36th Street	To Be Determined
13	WASD Westwood Lakes	4801 SW 117th Ave	To Be Determined
14	SHOP 2 (AUTO)	6100 SW 87th Ave	To Be Determined
15	SHOP 3B	7900 SW 107th Ave	To Be Determined
16	STATION 5	7707 SW 117th AVENUE	To Be Determined
17	STATION 8	10000 SW 142nd Ave	To Be Determined
18	PROS Larry & Penny Thompson Park	12451 SW 184th Street	To Be Determined
19	SDGC	10740 SW 211th Street	To Be Determined
20	WASD Blackpoint	8950 SW 232 Street	To Be Determined
21	WASD LeJeune	3575 S. LeJeune RD	To Be Determined
22	Crandon Park (Key Biscayne)	4000 Crandon BLVD	To Be Determined
23	WASD Virginia Key	3989 Rickenbacker CSWY	To Be Determined
24	Seaport	1580 N Cruise BLVD	To Be Determined
25	WASD Distribution	1001 NW 11th Street	To Be Determined
26	DTMP	201 NW 1st Street	To Be Determined
27	SHOP 1 MAIN	2690 NW 7th Ave	To Be Determined
28	WASD 36th Street	3625 NW 10th Ave (1001 NW 36th Street)	To Be Determined
29	Aviation MIA	4300 NW 20th Street	To Be Determined

It is anticipated a majority of the Software upgrade recompiling and testing will be performed remotely by the EJ Ward implementation team members based in San Antonio Texas. Ward will assign a project manager to this project for both the software and hardware phases of the implementation.